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ABSTRACT

Presented is a listing of books recommended by the Mathematical Association of the United Kingdom that deal with mathematics education at the primary and middle school levels. The following information on each book is provided: author; publisher; cost to the nearest pound; categories of use; and a code that indicates if the book in question is out of print, reprinted, and/or highly recommended. Brief annotations are provided with many of the entries. (MP)

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BOOKLISTS

For the Teaching of Mathematics in Schools

PRIMARY and MIDDLE SCHOOLS

(REF: P/M)

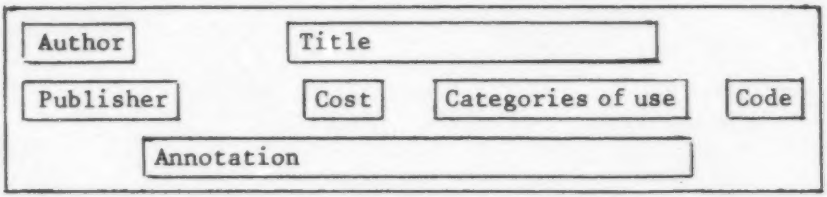
prepared by a sub-committee
of the Teaching Committee
of the
Mathematical Association

THE MATHEMATICAL ASSOCIATION

May 1980

SE 035 591

Information on each book is displayed in the following format:



Cost Given to the nearest £ above.

Code Symbols

* Highly recommended.

O Out of Print.

R Reprinting.

Categories of use

A Applications - to science, geography, economics.....
B Background and reference books for teachers.
C Content - mathematical topics (not above 1st year University level).
E Mathematical Education - eg. for 'Diploma' students.
J/K Primary school teachers (4-11 yrs)/and pupils.
L/M Lower secondary school teachers (11-16)/and pupils.
P/Q Practical and constructional work, books for teachers/pupils.
T Teaching method.
U/V Sixth-form teachers/and pupils.
Z Puzzles, problems, games and recreational mathematics.

Details of lists available are shown outside back cover.

PREFACE

The lists have been prepared by a sub-committee of Teaching Committee, and edited by F.R. Watson. A data-processing program written by Dr. K.H. Bennett (University of Keele) was used to extract the sublists and print them alphabetically.

Very many people have contributed to the production of these lists, in a variety of ways. In particular, thanks are due to the staff of the Education Library and of the Computer Centre, University of Keele, and to the members of the sub-committee, and many others who supplied information and comments.

It is intended to up-date the lists at fairly frequent intervals. We cannot hope to have avoided all errors and your suggestions are invited; they will help to improve the lists.

Comments on the lists, or notification of errors and omissions will be welcomed. Please address correspondence to the Secretary, Booklists Sub-committee, c/o Mathematical Association, 259 London Road, Leicester.

F.R.W.

May 1980

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AABOE, A. EPISODES FROM THE EARLY HISTORY OF MATHEMATICS
RANDOM HOUSE LU
+

ABBOTT, E.A. FLATLAND.
BLACKWELL, 3RD EDN., 1950. 3 BLMUV
+ (CLASSIC; IMAGINATIVE ACCOUNT OF WORLD OF 2, 1, AND 4 DIMENSIONS, WRITTEN 1880'S).

ABLEWHITE, R.C. MATHEMATICS AND THE LESS ABLE.
HEINEMANN, 1969. ELT
+ (FOR NON-SPECIALISTS)

ADAMS, L.D. BACKGROUND TO PRIMARY SCHOOL MATHEMATICS
OUP 1953 JTE
+ (CONTAINS MANY EXAMPLES OF WHAT CHILDREN ACTUALLY SAY AND DO)

ADLER, I. PROBABILITY AND STATISTICS FOR EVERYMAN.
DOBSON, 1963. BJLU
+ (G365)

ADLER, I. THE NEW MATHEMATICS.
DOBSON, 1964. BELUV
+ (EARLY POPULAR APPROACH, CLEAR, BUT DATED)

ADLER, I. GIANT GOLDEN BOOK OF MATHEMATICS - EXPLORING THE WORLD OF NUMBERS AND SPACE.
GOLDEN PRESS, N.YORK 1958,1960 AJKLM
(WESTERN PUBLISHING CO. INC.,
1220 MOUND AVE, RACINE WI 53404, USA)
+ (PP 56)

ANDERSON, J. ALGEBRA
BLACKIE, 1978 ELTU
+ (SCHOOLS COUNCIL "CRITICAL REVIEW" PROJECT)

ANDERSON, R.W. ROMPING THROUGH MATHEMATICS
FABER, 1952. 14 LMUV
+

APOSTOL, T. SELECTED PAPERS ON PRECALCULUS MATHEMATICS.
MATHEMATICAL ASSOCIATION OF AMERICA, 1977. BLMUV *
+ (G423, ARTICLES FROM AMERICAN MATHEMATICAL MONTHLY, AND MATHEMATICS MAGAZINE PP. 469)

ARGUNOV, B.I.& SKORNYAKOV, L.A. CONFIGURATION THEOREMS.
HEATH . MV
+ (DESARGUES AND PAPPUS FOR BEGINNERS)

ASSISTANT MASTERS ASSOCIATION THE TEACHING OF MATHEMATICS IN SECONDARY SCHOOLS
CUP., 1973, 2ND. ED. 4 ELTU
+ (SURVEY OF MOST ASPECTS)

ATM MATHEMATICAL ACTIVITIES FROM POLAND
ATM,MARKET ST. CHAMBERS,NELSON,LANCS,BB9 7LN 1 EJKPQT
+ (A PRIMARY PAMPHLET)

ATM PAMPHLETS (SEVERAL TITLES)
ATM,MARKET ST CHAMBERS,NELSON,LANCS,BB9 7LN 1 EJKLMT *
+ (TITLES INCLUDE IDEAS FOR SLOW LEARNERS;NUMBERS EVERYWHERE;RODS, BLOCKS AND BALANCES;FILM AND FILMSTRIP LIST. DETAILS FROM ATM)

ATM THE DEVELOPMENT OF MATHEMATICAL ACTIVITY IN CHILDREN.
ATM, MARKET ST. CHAMBERS, NELSON, LANCS. EJLTU *
+ (WRITTEN FOR I.C.M., MOSCOW 1966)

ATM EXAMINATIONS AND ASSESSMENT.
ATM, MARKET ST. CHAMBERS, NELSON, LANCS. EJLTU *
+

ATH — NOTES ON MATHEMATICS FOR CHILDREN.
CUP., 1977 — 3 — EJLT — *
+ (G421, ANECDOTES AND EXPOSITIONS, PRIMARY, LOWER SECONDARY, PP. 233)

ATH — MATHEMATICAL REFLECTIONS.
CUP. — 2 — BELTUV — O
+ (ESSAYS IN MEMORY OF G. SILLITOE; FULL OF VARIED GEOMETRICAL IDEAS, PP. 244)

ATH — NOTES ON MATHEMATICS IN PRIMARY SCHOOLS
CUP 1967 — 2 — ELET — *
+ (DESPITE ITS TITLE CONTAINS MANY IDEAS USEFUL IN EARLY SECONDARY YEARS)

AUCKLAND, K. AND OTHERS — PRIMARY MATHEMATICS
GLOBE EDUCATION, 1977 — 4 — EJT
+ (BRIEF NOTES ON TEACHING METHODS AND APPROACHES)

AVITAL, S.M. AND SHETTLEWORTH, S.J. — OBJECTIVES FOR MATHEMATICS LEARNING.
ONTARIO INSTITUTE FOR STUDIES IN EDUCATION, 1968. — EJLT — *
+ (TAXONOMY DERIVED FROM BLOOM, SAMPLE TEST ITEMS)

BAILEY, C.A.R. — SETS AND LOGIC 1&2 (ST. DUNSTAN'S COLLEGE BOOKLETS)
ARNOLD. — 1,1 — LMUV
+

BAKER,L., WELLS, STEPHENS, FIELKER — CHILDSPLAY MATHEMATICS
EVANS, 1975. — 2 — PQJBEZT — *
+ (GAMES, OPEN SITUATIONS)

BALL,J — THINK OF A NUMBER
BBC PUBLICATIONS,1979 — 3 — JKZ
+ (BRIGHTLY ILLUSTRATED,FOR 7-12 YEAR OLDS - EDUCATION AND ENTERTAINMENT)

BANNELL, C. AND OTHERS — STARTING POINTS FOR TEACHING MATHS IN MIDDLE AND SECONDARY SCHOOLS.
OUP.1972. — EJLMPQTUVZ — *O
+ (MIS 1,7 IDEAS FOR INVESTIGATIONS, LOWER SECONDARY)

BARATTA-LORTON, M. MATHEMATICS THEIR WAY
ADDISON WESLEY, 1976 10 JQ
+ (SUGGESTIONS FOR PRACTICAL INFANT ACTIVITIES IN NUMBER AND MEASURE)

BARATTA-LORTON, M. WORK JOBS
ADDISON WESLEY, 1972 5 JQ
+ (SUGGESTIONS FOR PRACTICAL INFANT ACTIVITIES IN NUMBER AND MEASURE)

BARNES, D. LANGUAGE, THE LEARNER AND THE SCHOOL.
PENGUIN, 1971, 2ND. ED. 1 EJLTU *
+ (LANGUAGE INTERACTION IN THE CLASSROOM - INCLUDES MATHEMATICS EXAMPLES)

BARON, M.E. NUMBER IN ELEMENTARY MATHEMATICS
HUTCHINSON EDUCATIONAL 4 EJLT
+

BARR, S. EXPERIMENTS IN TOPOLOGY.
MURRAY, 1965 BLMPQUV *O
+ (PRACTICAL ACTIVITY, FASCINATING DIALOGUE)

BATTERSBY, A. MATHEMATICS IN MANAGEMENT.
PENGUIN, 1966. 1+ ABLUV *
+ (G380, USEFUL GUIDE OPERATIONAL RESEARCH PP.256)

BEARD, R.S. PATTERNS IN SPACE
CREATIVE PUBLICATIONS INC. LPU
(BOX 10328, PALO ALTO,
CALIFORNIA, 94303, USA.
+ (GEOMETRIC DESIGNS & CONSTRUCTIONS, PP.237)

BECKENBACH, E. & BELLMAN, R. AN INTRODUCTION TO INEQUALITIES
MATHEMATICAL ASSOCIATION OF AMERICA LMUVC *
+

BEILER, A.H. RECREATIONS IN THE THEORY OF NUMBERS. THE QUEEN OF MATHEMATICS ENTERTAINS
DOVER, 1966. 3 LMUVZ *
+ (ELEMENTARY, VERY FULL BIBLIOGRAPHY, PP.349)

BELL, A.W. AND FLETCHER, T.J. — SYMMETRY GROUPS. MATHEMATICS TEACHING PAMPHLET NO.12.
A.T.M., 1964. BCLUV
+ (STRIP AND WALLPAPER PATTERNS)

BELL, A.W. AND OTHERS — JOURNEY INTO MATHS.
BLACKIE, 1979. ELMT *
+ (THE S.NOTTINGHAMSHIRE PROJECT)

BELL, D. ET AL — AREA, WEIGHT & VOLUME
NELSON, 1975 4 EJPT
+

BELL, E.T. — MATHEMATICS, QUEEN AND SERVANT OF SCIENCE.
BELL, 1952. BHLUV O
+

BELL, HUGHES AND ROGERS — AREA, WEIGHT AND VOLUME
NELSON, 1975 3 PJBET
+ (MONITORING AND ENCOURAGING CHILDREN'S CONCEPTUAL DEVELOPMENT)

BENDICK, J. AND OTHERS — MATHEMATICS ILLUSTRATED DICTIONARY.
KAYE & WARD WITH HICKS, SMITH, 1965 Z BHM
+ (MIS 4,1 DEFINITIONS,EXPLANATIONS,POTTED BIOGRAPHIES; SIMPLE LANGUAGE,GENEROUSLY ILLUSTRATED)

BERGAMINI, D. — MATHEMATICS.
TIME-LIFE INTERNATIONAL, 1969. 14 BHLMUV *
+ (G391, POPULAR HISTORICAL ACCOUNT, PP. 189)

BIGGS, E.E. AND MACLEAN, J.R. — FREEDOM TO LEARN.
ADDISON-WESLEY,1969. 9 EJLT
+ (ACTIVE LEARNING, CANADA)

BIGGS, E.E. AND MACLEAN, J.R. — MATHEMATICS FOR OLDER CHILDREN.
MACMILLAN, 1972. JLT O
+ (MIS 1,7 OLDER JUNIORS; TEACHING METHOD AND RESEARCH)

BIRKHOFF, G.D. AND BEATLEY, R. — BASIC GEOMETRY.
CHELSEA, 3RD EDITION, 1940. 5 LBT
+ (TRADITIONAL EUCLIDEAN GEOMETRY MADE RIGOROUS AND INTERESTING, PP 294)

BLAKELEY, P. BIG AND LITTLE
A. AND C. BLACK, 1968 1 K
+ (EARLY LANGUAGE FOR COMPARISON OF SIZE OF THINGS IN ENVIRONMENT)

BOON, F.C. A COMPANION TO ELEMENTARY SCHOOL MATHEMATICS.
LONGMANS, 1960 BLUV O
+ (FIRST PUBLISHED 1924 - BACKGROUND TO TRADITIONAL A LEVEL. STILL HAS MATERIAL NOT AVAILABLE ELSEWHERE)

BOON, F.C. (REVISED CUNDY) PUZZLE PAPERS IN ARITHMETIC.
BELL, 1960. LMUVZ
+ (NOT JUST ARITHMETIC - USEFUL COLLECTION OF 'PUZZLES')

BOWMAN, M.E. ROMANCE IN ARITHMETIC.
UNIV. OF LONDON PRESS, 1969. BHJKLMUV O
+ (SIMPLE READABLE ACCOUNT OF HISTORY OF MEASURES)

BRADFORD, M.G. AND KENT, HUMAN GEOGRAPHY, THEORIES AND THEIR APPLICATIONS
OUP, 1977 ABCLUV
+ (SOME MATHEMATICAL MODELS USED IN GEOGRAPHY PP180)

BRODETSKY, S. A FIRST COURSE IN NOMOGRAPHY
BELL 1920 LU
+ (OLD BUT USEFUL AND INTERESTING)

BROOKES, B.C. NOTES ON THE TEACHING OF STATISTICS IN SCHOOLS.
HEINEMANN ED., 1952. LTU
+

BUDDEN, F.J. THE FASCINATION OF GROUPS
CUP 1972 6 LUV *
+ (MIS 2,1)

BUNT, L.N.H.,ET AL. THE HISTORICAL ROOTS OF ELEMENTARY MATHEMATICS.
PRENTICE-HALL, 1976. BHJLU
+ (ARITHMETIC,ALGEBRA,GEOMETRY,NUMBER SYSTEMS DERIVED FROM THEIR SOURCES, PP300)

BURKE, P. AND DENHURST, W. BRONTE BOOKS (SET OF SEVERAL TITLES)
LONGMAN 2 K *
+ (SET OF 8-16PP BOOKLETS FOR PRE-SCHOOL AND INFANT CHILDREN)

BURKHARDT, H. SEVEN SEVENS ARE FIFTY? - MATHEMATICS FOR THE REAL WORLD: INAUGURAL LECTURE.
SHELL CENTRE FOR MATHEMATICAL EDUCATION, ABLUE
UNIVERSITY OF NOTTINGHAM.
+

CALVERT, M. FIRST SCHOOL MATHEMATICS
GINN, 1971 JE
+

CAMERON, A.J. MATHEMATICAL ENTERPRISES FOR SCHOOLS.
PERGAMON, 1966. BJLMPQ
+

CARTER, D.C.,ED. TOPICS IN MATHEMATICS :SOME IDEAS FOR THE SECONDARY CLASSROOM
BELL & HYMAN, 1979 4 BCELTU *
+ (FROM MATH. GAZETTE)

CARTER, D.C. AND WAIN, G.T., EDS. REFERENCES OF USE TO TEACHERS OF MATHEMATICS. VOL I AND SUPPLEMENT 1
CENTRE FOR STUDIES IN SCIENCE EDUCATION, UNIV. OF LEEDS. 1975,1979. BEJLTU *
+ (COMPREHENSIVE, FROM JOURNALS)

CHAPMAN, L.R.,ED. THE PROCESS OF LEARNING MATHEMATICS.
PERGAMON,1972 8 BEJLTUV
+ (G399, MIS 2,1 COLLECTED B.ED. LECTURES, PP. 392)

CHAROSH, M. STRAIGHT LINES, PARALLEL LINES, PERPENDICULAR LINES.
BLACK, 1971. 2 K *
+

CHAROSH, M. MATHEMATICAL CHALLENGES.
NATIONAL COUNCIL OF TEACHERS OF MATHS,1965. LMUVZ
+

CHIVERS, K.G. AND ROSEWELL, G.H.W. MATHEMATICAL EXPERIMENTS FOR JUNIORS. BOOKS 1,2
CASSELL, 1965. KPQ O
+ (MIS 1,1)

CHOAT, E. CHILDREN'S ACQUISITION OF MATHEMATICS
NFER 1978 5 EJT
+

CHOAT, E.(ED.) PRE-SCHOOL AND PRIMARY MATHEMATICS
WARD LOCK, 1973 JET
+ (MIS 3,4)

CHRONICLER,THE FRED LEARNS BASIC STATISTICS
CONTINUA PRODUCTIONS 1973 2 LUV
+ (A LIGHTHEARTED SURVEY OF STATISTICAL METHODS, PP96)

COLE, J.P. AND BEYNON, W.J. NEW WAYS IN GEOGRAPHY (VOLS)
BASIL BLACKWELL 1, PQJKLM *
+ (MIS 6,1 SIMPLE PRACTICAL MATHEMATICS EXERCISES,PP61,64,64)

COMBRIDGE J.T.,ED. COUNT ME IN.
THE QUEEN ANNE PRESS LTD., 1968. BEJLTUV
+ (ESSAYS, VARIOUS AUTHORS, NUMERACY IN EDUCATION AND WORK)

COXETER, H.S.& GREITZER,S.L. GEOMETRY REVISITED.
MATHEMATICAL ASSOCIATION OF AMERICA, 1967. 1+ ELMUV *
+ (G381, WIDE-RANGING AND FRESH, PP. 193)

CRANK, J. MATHEMATICS AND INDUSTRY.
OXFORD, 2ND EDN., 1975 16 ABCLUV
+

CRAWFORD, D.H. THE FIFE MATHEMATICS PROJECT. AN EXPERIMENT IN INDIVIDUALISED LEARNING.
OUP, 1975. 2 ELT
+ (G411, MIS 5,1, MIXED ABILITY, PP. 146)

CRITCHLOW, K. ORDER IN SPACE (GEOMETRY).
THAMES & HUDSON,1969 JLPUVH *
+ (PRACTICAL VISUAL EXERCISES)

CUNDY, H.M. & ROLLET, A.P. MATHEMATICAL MODELS.
OXFORD, 2ND EDN., 1973 3 BJLMPQUV *
+ (G358, MIS 2,3, CLASSIC TREATMENT OF MODELS AND MODEL-MAKING, PP. 286)

DALTON, R.ET AL NETWORKS IN GEOGRAPHY.
G.PHILIP, 1973 ALMPQUV
+

DANTZIG ,T NUMBER ,THE LANGUAGE OF SCIENCE
ALLEN AND UNWIN,1962,4TH ED 2+ LUVH *
+ (GXV,FIRST B CHS TRACE HISTORY OF NUMBER CONCEPT
FROM FINGERS TO WEIERSTRASS.ACCURATE AND INTERESTING, PP320)

DAVIS, P.J. THE LORE OF LARGE NUMBERS.
RANDOM HOUSE. BLMUV

DIENES, Z.P. MATHEMATICS IN THE PRIMARY SCHOOL.
MACMILLAN, 1964. EJT 0

DIENES, Z.P. BUILDING UP MATHEMATICS.
HUTCHINSON EDUCATIONAL 4TH ED. 1971. EJLT *
(INTRODUCTION TO DIENES' PHILOSOPY OF MATHEMATICS TCHG - INCLUDING MULTIBASE ARITHMETIC BLOCKS AND ALGEBRAIC EXPERIENCE MATERIALS)

DIENES, Z.P. MODERN MATHEMATICS FOR YOUNG CHILDREN.
E.S.A., 1965. JT

DIENES, Z.P. THE POWER OF MATHEMATICS.
HUTCHINSON. EJT

DIENES, Z.P.(TRS. SEABORNE) THE SIX STAGES IN THE PROCESS OF LEARNING MATHEMATICS.
NFER, 1973 1 BEJLTU
(G40*,MIS3,4 THOUGHT PROVOKING,PP54)

DIENES, Z.P. AND JEEVES, M.A. THINKING IN STRUCTURES.
HUTCHINSON. ELUT
(SPECIALIST: RESEARCH REPORT)

DONCASTER L.E.A. PRIMARY MATHEMATICS
GLOBE 4 BEJT
(PRIMARY TEACHERS' GUIDE)

DUNCAN, A. TEACHING MATHEMATICS TO SLOW LEARNERS
WARD LOCK 1978 6 EJLT

EDSALL, D. CALCULATORS HAVE COME.
MATHEMATICAL ASSOCIATION, 1976. 1 ELU
(IMPACT IN SCHOOLS;BECOMING OUT OF DATE)

ESCHER, M. C. THE GRAPHIC WORK OF M. C. ESCHER.
OLDBOURNE PRESS.1961. BJKLMUVZ *
(GOOD REPRODUCTIONS, SOME IN COLOUR, OF ESCHER'S WORK; NO ANALYSIS)

FLETCHER, D. & IBBOTSON, J. GEOMETRY WITH A TANGRAM
HOLMES MCDOUGALL 1966 JKLM
+

FLETCHER, H., HOWELL, A.H. AND WALKER, R. MATHEMATICS FOR SCHOOLS: TEACHERS' RESOURCE BOOKS
ADDISON WESLEY 1970-79 4 JLBET *
+ (LEVEL I (INFANTS) ONE VOL., LEVEL II (JUNIOR-MIDDLE) FIVE VOLS.)

FLETCHER, H. AND HOWELL, A. A. MATHEMATICS WITH UNDERSTANDING (2 VOLS).
PERGAMON, 1970. 4,7 BEJLT
+ (CONTENT AND APPROACH AT PRIMARY LEVEL)

FLETCHER, T.J. RECURRENCE RELATIONS.
MATHEMATICAL PIE, 1958. LUVZ
+

FLETCHER, T.J.,ED. SOME LESSONS IN MATHEMATICS.
CUP 8 BELTU *
+ (INDISPENSABLE - ONE OF THE CLASSICS OF MODERN MATHEMATICS; CHAPTER 10 IS AN EXCELLENT ACCOUNT OF REFLECTION GEOMETRY)

FORSYTH, A. I. AND OTHERS COMPUTER SCIENCE BASIC LANGUAGE PROGRAMMING.
OLIVER AND BOYD. 8 LMUVZ O
+ (MAINLY MATHEMATICAL PROBLEMS)

FROMAN, R. BIGGER AND SMALLER
A. AND C. BLACK, 1971 2 K
+ ("YOUNG MATHEMATICIAN" SERIES FOR 5 - 9 YEAR OLDS)

GLENN, J.A. CHILDREN LEARNING GEOMETRY
HARPER & ROW, 1979 3 JET *
+ (CLASSROOM ACTIVITIES ON SHAPE FOR 5-9 YEAR OLDS)

GOLOMB, S. W. POLYOMINOES
ALLEN & UNWIN 1965 2 L M U V Z
+

GOLVINA, L.I. & YAGLOM, I.M. INDUCTION IN GEOMETRY.
HARRAP. LUV
+ (GOOD EXAMPLES OF INDUCTIVE PROOFS; DISSECTION, MAP COLOURINGS AND CONSTRUCTIONS)

GOUTARD M. MATHEMATICS AND CHILDREN
EDUCATIONAL EXPLORERS 1964 J L T E
+

GREAT BRITAIN, SCHOOLS COUNCIL PRIMARY MATHEMATICS PROJECT WHAT'S GOING ON IN PRIMARY MATHEMATICS.
SCHOOLS COUNCIL, 1974. EJL
+ (SURVEY)

GRICE, M. ONE, TWO, THREE, FOUR : NUMBER RHYMES & FINGER GAMES
FREDERICK WARNE 1972 3 JPZ
+

GRIFFITHS H.B. AND HOWSON A.G. MATHEMATICS: SOCIETY & CURRICULA.
CUP., 1974. BELU
+ (MIS 3,6;STANDARD REFERENCE; FORCES INFLUENCING CURRICULUM)

GRUENBERGER, F. AND JAFFRAY, G. PROBLEMS FOR COMPUTER SOLUTION.
WILEY, 1965. MQVZ
+ (PROBABLY BEST SUCH COLLECTION)

H.M.INSPECTORATE MATHEMATICS 5-11: A HANDBOOK OF SUGGESTIONS
HMSO, 1979 3 JET
+ (SUGGESTED BASIC SYLLABUS WITH INDICATIONS OF TEACHING APPROACH, PP83)

HABER, A. AND RUNYON, R. P. GENERAL STATISTICS
ADDISON-WESLEY 1973 L U V C E
+ (OPEN UNIVERSITY TEXTBOOK. COMPREHENSIVE ON APPLICATIONS. NOT HIGHLY MATHEMATICAL)

HALE, D. NUMBER: SOME IDEAS FOR THE CLASSROOM.
UNIVERSITY OF NOTTINGHAM. SHELL CENTRE FOR MATHEMATICAL EDUCATION, 1975. EL
+

HALE, D. SHAPE: SOME IDEAS FOR THE CLASSROOM.
UNIVERSITY OF NOTTINGHAM. SHELL CENTRE FOR MATHEMATICAL EDUCATION, 1975. EL
+

HALLERBERG, A. HISTORICAL TOPICS FOR THE MATHEMATICS CLASSROOM, (31ST YEAR BOOK)
NCTM, 1969. BEHJLTU
+ (RECOMMENDED, PP524)

HAMMOND,R. AND MCCULLAGH, P.S. QUANTITATIVE TECHNIQUES IN GEOGRAPHY
OUP,1974 4 ALU
+

HILTON, A. VECTORS (MACDONALD COLOUR UNITS)
MACDONALD 1 LMV
+

HOGBEN, L. MATHEMATICS
MACDONALD (WONDERFUL WORLD SERIES) 1968 K M J L *
+ (BEAUTIFULLY ILLUSTRATED CHILDREN'S BOOK)

HOGBEN, L. MATHEMATICS IN THE MAKING.
MACDONALD, 1960. BHJKLMUV
+

HOGBEN, L. MATHEMATICS FOR THE MILLION.
ALLEN AND UNWIN 6 BHJLUV
+ (AN OLD FAVOURITE,STILL VALUABLE)

HOLDEN, A. SHAPES,SPACE AND SYMMETRY.
COLUMBIA, 1971. KKYZ *
+ (MANY BEAUTIFUL PHOTOGRAPHS DISCUSSED AND ANALYSED)

HOLLANDS, R. MATHS GAMES & ACTIVITIES
HART-DAVIS, 2ND EDN. 1977 2 JPT
+

HOLT, J. HOW CHILDREN FAIL.
PITMAN, 1964. EJLT *
+ (POLEMICAL;DIARY OF ATTEMPTS TO ANALYSE)

HOLT, M. AND DIENES, Z. LET'S PLAY MATHS.
PENGUIN, 1973. EJPT O
+ (MIS 4,2, IDEAS FOR 70 GAMES WITH CHILDREN 4-11YRS)

HOLT, M. AND MARJORAM, D. T. E. MATHEMATICS IN A CHANGING WORLD.
HEINEMANN ED., 1973. ABLUV O
+ (G403,MIS 3,4,ODD SELECTION OF APPLICATION - SCIENCE,ECONOMICS GEOGRAPHY GOOD ON PRACTICAL USES;PP293)

HOLT, M. J. AND MCINTOSH, A. THE SCOPE OF MATHEMATICS.
J.
OUP, 1966. BJLUV
+ (LITTLE OUTDATED, BUT GOOD COVERAGE OF LOW LEVEL APPLICATIONS;
NON-SPECIALIST SIXTH FORMS, INCLUDES HISTORY, STRUCTURE AND LOGIC,
MODELLING)

HONSBERGER, R MATHEMATICAL PLUMS
MATHEMATICAL ASSOCIATION OF AMERICA, 1979 8 LMUYZ
+ (10 ESSAYS ON INGENIOUS MATHEMATICAL WORK AT THE ELEMENTARY LEVEL,
PP 182) (SEE ALSO M.'GEMS' AND 'MORSELS')

HOPKINS, C.H. PROJECT MATHS, STAGES 1,2,3.
LONGMANS, 1966 LMQ
+

HOWSON, A.G., ED. DEVELOPMENTS IN MATHEMATICAL EDUCATION. PROCEEDI-
NGS. .I.C.M.E.
CUP. 5 BEJLTU
+ (G404 MIS 3,1, INCLUDES PAPERS BY PIAGET, FREUDENTHAL, THOM, PP318)

HOYLE, F THE NATURE OF THE UNIVERSE.
PENGUIN. BLUV 0
+ (STIMULATING - CONTINUOUS CREATION THEORY)

HUFF, D. HOW TO TAKE A CHANCE.
PENGUIN. 1 BLMUV *
+ (LIGHT-HEARTED)

HUFF, D. HOW TO LIE WITH STATISTICS.
GOLLANCZ, 1954. BJLMUV *
+ (GIVES EXAMPLES OF FALSE/MISLEADING DATA PRESENTATION; ELEMENTARY,
AMUSING AND INSTRUCTIVE)

HUNTER, J. AND CUNDY, H.M. NUMBER
BLACKIE, 1978 ELTU
+ (SCHOOLS COUNCIL "CRITICAL REVIEW" PROJECT)

JACOBS, H.R. MATHEMATICS, A HUMAN ENDEAVOR
FREEMAN, 1970. LUV
+ (TEXT FOR A LIBERAL ARTS COURSE, EXCELLENT RESOURCE BOOK;
IDEAS ADAPTABLE FOR 'MIDDLE' SCHOOLS, PP.529)

JEGER M. TRANSFORMATION GEOMETRY.
ALLEN & UNWIN, 1966. BCLUV *O
+ (ANALYSIS OF TRANSFORMATIONS, NOT THE GOEMETRY - ISOMETRIES, ENLARGEMENTS SIMILARITIES - 1ST YR. UGRAD. LEVEL)

JOHNSON, D.A. AND GLENN, W.H. (+ OTHER AUTHORS, INCLUDING COOPER, C.D.H. EXPLORING MATHEMATICS ON YOUR OWN. (SERIES - SEVERAL TITLES)
MURRAY, 1964 ONWARDS, TO 1975 1 LMUV
+ (PRICES ABOUT 1 EACH - TITLES INCLUDE NUMBER PATTERNS, TOPOLOGY, MATRICES, INFINITE NUMBERS, PERMUTATIONS AND GROUPS, WORLD OF STATISTICS, THEOREM OF PYTHAGORAS, NUMBERS: THEIR PERSONALITIES AND PROPERTIES. NOTE - SOME OUT OF PRINT).

JONES, G.T. SIMULATION AND BUSINESS DECISIONS.
PENGUIN, 1972. ALUV O
+ (RANDOMNESS IN A REAL SETTING)

KANER,P AND LANGDON,N IT FIGURES
BBC PUBLICATIONS,1979 3 LM
+ (PRACTICE EXAMPLES FOR EVERYDAY PROBLEMS,PP160)

KASNER, E. & NEWMAN, J.R. MATHEMATICS AND THE IMAGINATION.
BELL,1949. 5 BLUVZ *
+

KAZARINOFF, N.D. GEOMETRIC INEQUALITIES.
MATHEMATICAL ASSOCIATION OF AMERICA 1961 LUV *
+

KING, A.C. AND READ, C.B. PATHWAYS TO PROBABILITY
HOLT, RINEHART AND WINSTON, 1963 BHLUV
+ (PP 139)

KLINE, M. MATHEMATICAL THOUGHT FROM ANCIENT TO MODERN TIMES.
OUP, 1973. 24 CHLUV R*
+ (G403, MIS 3,4, EXHAUSTIVE, AUTHORITATIVE HISTORY, PP1238)

KLINE, M. MATHEMATICS IN WESTERN CULTURE.
PENGUIN, 1972. 2 BCHLUV *
+ (LAYMAN'S INTRODUCTION)

KLINE, M. WHY JOHNNY CAN'T ADD.
ST. JAMES PRESS, 1976. JE
+ (A PERSONAL ATTACK ON THE "MODERN MATH" MOVEMENT IN THE USA)

KORDEMSKY, B. THE MOSCOW PUZZLES.
PENGUIN, 1975. 2 LMUVZ *
+ (MIS 6,1)

KOROVKIN, P.P. INEQUALITIES
BLAISDELL, 1961 LMUVC
+

KRAITCHIK, M. MATHEMATICAL RECREATIONS.
ALLEN & UNWIN, 1960. BLMUVZ *O
+

KRAUSE, E.F. TAXICAB GEOMETRY.
ADDISON-WESLEY, 1975. 3 LMPQUV
+ (MIS 5,2, SIMPLE BUT TEACHES SOME PROFOUND BASIC GEOMETRICAL IDEAS)

KRULIK, S. HANDBOOK OF AIDS FOR TEACHING JUNIOR-SENIOR HIGH SCHOOL MATHEMATICS
W. B. SAUNDERS CO. 1971, (PHILADELPHIA U.S.A.). LPQU
+ (HANDBOOK OF 41 MULTI SENSORY AIDS, PP.120)

LAND, F.W. THE LANGUAGE OF MATHEMATICS.
MURRAY, 1975. 3 ABEUMUV *
+ (WRITTEN AT ELEMENTARY LEVEL FOR PRIMARY TEACHERS)

LAWRENCE, J.D. A CATALOG OF SPECIAL PLANE CURVES.
DOVER, 1972. 3 BCLUV *
+ (G402, REFERENCE ONLY, BUT EXCELLENT, PP218)

LEAPFROGS GROUP HISTORY SERIES: CONICS, COMPLEX NUMBERS (2 VOLS)
LEAPFROGS 1,1 LUWH
+ (SERIES ALSO INCLUDES A RESOURCE FILE ON HISTORY OF MATHEMATICS)

LEAPFROGS GROUP — CALCULATORS; FITTING; SYSTEMS (3 VOLS)
LEAPFROGS, COLD HARBOUR, NEWTON ST. CYRES, EXETER, DEVON — 1,1 KMQ *
+ (LEAPFROGS GROUP ALSO PRODUCES: POSTERS, FILMS, SLIDES, CASSETTES & MATERIALS; SEE CATALOGUE)

LEAPFROGS GROUP (NETWORK SERIES) — WORKBOOKS: WITH FEW WORDS (BLUE, ORANGE, GREEN, BLACK) 4 VOLS.
HUTCHINSON, 1976 — 1,1 MQ
+ (PUZZLES AND DIAGRAMS INVITING THE USER TO ADD OWN IDEAS - VISUAL RATHER THAN VERBAL)

LEAPFROGS GROUP (NETWORK SERIES) — LINK BOOKS (LINKS, LEADS, LEAVES) 3 VOLS
HUTCHINSON 1976 — 1,1 KMQ
+ (PHOTOGRAPHS, DRAWINGS ETC. WITH IMPLICIT MATHEMATICAL THEMES - FEW CAPTIONS, LEAVES IS A "FLICKER BOOK")

LEAPFROGS GROUP (NETWORK SERIES) — ACTION BOOKLETS: 14 TITLES
HUTCHINSON, 1977 — 1,1 KMQ *
+ (TITLES ARE : ANIMATIONS, BANDS, CHANCE, CODES, CUBES, DOODLES, DOTS, FOLDS, MOVES, ORDERS, PEGBOARDS, PRINTS, SPIRALS, TILES)

LIETZMANN, W. — VISUAL TOPOLOGY.
CHATTO AND WINDUS, 1969 — 2 CLMUYZ 0
+ (TRANS. FROM GERMAN, VERY READABLE INTRODUCTION, PP169)

LIGHTHILL, J., ED. — NEWER USES OF MATHEMATICS.
PENGUIN, 1978. — 3 ALUVBC
+ (G425, FULL OF MODERN NON-SCIENTIFIC APPLICATIONS, PP431)

LINDGREN, H. & FREDERICKSON, G. — GEOMETRIC DISSECTIONS.
DOVER/CONSTABLE, 1965. — MYZ *
+

LINDSAY, R.J. — MATHEMATICS IN THE WORLD.
BLACKIE — ELTU
+ (SCHOOLS COUNCIL "CRITICAL REVIEW" PROJECT)

LING, J. — MATHEMATICS ACROSS THE CURRICULUM
BLACKIE, 1977 — ABJL
+ (SCHOOLS COUNCIL "CRITICAL REVIEW" PROJECT)

LINN, C. F. ESTIMATING
A. AND C. BLACK, 1971. K
+ ("YOUNG MATHEMATICIAN" SERIES, 5-9YR. OLDS)

LOCKWOOD, E.H. A BOOK OF CURVES
CUP, 1961. 11 BLMPUV *
+ (G360, ONE NEW CURVE DISCUSSED EVERY 2 PAGES)

LOVELL, K THE GROWTH OF UNDERSTANDING IN MATHEMATICS, GRADES K THRO' 3
HOLT, RINEHART, WINSTON, 1971 3 EJ
+

LOVELL, K THE GROWTH OF BASIC MATHEMATICAL AND SCIENTIFIC CONCEPTS IN CHILDREN
ULP, 5TH EDN., 1966 EJL *O
+

LUMB, D. AND PAPENDICK, A. MATHEMATICS 5 TO 9
MURRAY, 1978. 3 JBETP *
+ (MATHS GUIDE)

MANCHESTER COLLEGE OF EDUCATION NOTES ON GUIDELINES IN SCHOOL MATHEMATICS
HART-DAVIS, 1970 ELT
+ (OVERVIEW OF THE 11-16 MATHEMATICS SYLLABUS)

MARCH, L. & STEADMAN,P. THE GEOMETRY OF ENVIRONMENT.
RIBA PUBLICATIONS, 1971. 5 ABCLUV *
+ (G410,MATHS. IN ARCHITECTURE - MANY UNEXPECTED APPLICATIONS. THE FORMAL GEOMETRY IS SUBSTANTIAL, PP360)

MARJORAM, D.T.E. TEACHING MATHEMATICS.
HEINEMANN,1974 3 ELTU
+ (G406, MIS 4,1, PP223)

MARSH, L.G. WORLD OF MATHEMATICS (LET'S DISCOVER MATHEMATICS, BOOKS 1-6)
BLACK, 1972
+ (MIS,3,1)

MATHEMATICAL ASSOCIATION REPORTS ON THE TEACHING OF.... (VARIOUS TITLES)
BELL BELTU *
+ (REPORTS ON GEOMETRY(1951),ARITHMETIC(1952,64),MECHANICS(1950,65) ANALYSIS(1963),A-LEVEL PROBABILITY AND STATISTICS(1975),11-16(1974) SIXTH-FORM NON-SPECIALISTS,ALGEBRA(1951,57),CALCULUS(1951),HIGHER GEOMETRY (1953),TRIGONOMETRY(1950) DESPITE THE CHANGES OF RECENT YEARS THESE CONTAIN MUCH USEFUL MATERIAL :DETAILS FROM M.A.,LEICESTER)

MATHEMATICAL ASSOCIATION — WHY, WHAT AND HOW?: SOME BASIC QUESTIONS FOR MATHEMATICS TEACHING
M.A. LEICESTER, 1976 — EJLTU
+

MATHEMATICAL ASSOCIATION — A REVISED GUIDE TO MATHEMATICS PROJECTS IN BRITISH SECONDARY SCHOOLS
BELL, 1976 — BELU
+ (AN EARLIER VERSION WAS PUBLISHED IN 1968)

MATHEMATICAL ASSOCIATION — PRIMARY MATHEMATICS: A FURTHER REPORT
BELL 1970 — JET
+ (FIRST PRIMARY REPORT WAS PUBLISHED 1955)

MATHEMATICS FOR THE MAJORITY PROJECT — GUIDES : COUNTING TO CALCULATING; GEOMETRY FOR ENJOYMENT; LUCK & JUDGEMENT; MACHINES, MECHANISMS AND MATHEMATICS; (AND OTHERS)
CHATTO AND WINDUS — LT
+ (GOOD SOURCE MATERIAL, BUT NEEDS ADAPTATION FOR LOW ABILITY PUPILS, THE PROJECT'S "TARGET AUDIENCE")

MATHEMATICS FOR THE MAJORITY PROJECT — CROSSING SUBJECT BOUNDARIES
CHATTO AND WINDUS, 1974 — ABJL
+

MATTHEWS, G (ED) — MATHEMATICS THROUGH SCHOOL
MURRAY, 1972 — 1 — BCEJLT
+ (MIS 1,7, LIVELY DESCRIPTIONS OF MATHEMATICS TEACHING AT VARIOUS LEVELS)

MAXWELL, D. — 11 TO 13
BLACKIE — ELT
+ (SCHOOLS COUNCIL "CRITICAL REVIEW" PROJECT)

MAXWELL, E.A. — FALLACIES IN MATHEMATICS.
CUP, 1959. — 5 — BELUVZ
+

MAXWELL, E.A. — A GATEWAY TO ABSTRACT MATHEMATICS.
CUP, 1965. — 3 — BCLUV

MCKAY, H — FUN WITH MECHANICS
O.U.P. 1944 — JLM
+

MENNINGER, K. — NUMBER WORDS AND NUMBER SYMBOLS.
MIT. PRESS, CAMBRIDGE, MASS. 1969. — BHJLUV
+ (USEFUL BACKGROUND IDEAS)

MIDDWICK — A TREASURY OF MATHEMATICS. 2 VOLS.
PENGUIN, 1968. — BHLMUV — *O
+ (COLLECTION OF ORIGINAL SOURCES)

MILLINGTON, T.A. AND W. CASSELL, 1966 — DICTIONARY OF MATHEMATICS — CL
+ (COMPREHENSIVE IN CONTENT, PRECISE IN DEFINITION)

MOAKES, A.J. — NUMERICAL MATHEMATICS.
MACMILLAN, 1965. — 1 — CLMUV — R
+ (FOR DESK CALCULATING MACHINES - BUT USEFUL NEVERTHELESS)

MOLD, J — TOPICS FOR MATHEMATICS, (4 VOLS)
CUP, L96 — KMQ — *
+ (MIS 1,1; TITLES ARE ROLLING, TESSELLATIONS, CIRCLES, SOLID MODELS)

MOORE, W., WILLIAMS, M. ET AL — NUFFIELD MATHEMATICS 2
LONGMANS, 1979 — 4 — JPT — *
+

MOORE, W., WILLIAMS, M. ET AL. — NUFFIELD MATHEMATICS 1
LONGMANS, 1979 — 4 — JPT — *
+

MORONEY, M. J. — FACTS FROM FIGURES.
PENGUIN. — 2 — ABCLMUV
+ (POPULAR APPROACH, GOOD AND CLEAR, HARD IN PARTS; SOME SECTIONS DATED)

MYLLER, R. — HOW BIG IS A FOOT?
WHEATON — K
+ (STORY SHOWING NEED FOR STANDARD MEASURES)

NCTM — GAMES AND PUZZLES FOR ELEMENTARY AND MIDDLE SCHOOL MATHEMATICS
NCTM, 1975 — JZ
+ ("ELEMENTARY"= PRIMARY, PP280)

NCTM — READINGS IN GEOMETRY FROM THE ARITHMETIC TEACHER
NCTM, 1970

NEILL, H. AND ROAKES, A.J. — VECTORS, MATRICES AND LINEAR EQUATIONS.
OLIVER AND BOYD, 1967 — LUV — O
(MEI A LEVEL)

NEILL, H. AND SHUARD, H.B. — FROM GRAPHS TO CALCULUS
BLACKIE, 1978 — 4 — ELTU
(SCHOOLS COUNCIL "CRITICAL REVIEW" PROJECT)

NEWMAN, J.R. — THE WORLD OF MATHEMATICS (4 VOLS)
ALLEN AND UNWIN, 1960 — 3 — BCEHLUV
(INDISPENSABLE - A CLASSIC; SELECTIONS FROM A WIDE RANGE OF ORIGINAL SOURCES, WITH HISTORICAL COMMENTARY; VOL II OUT OF PRINT)

NIVEN, I. — THE MATHEMATICS OF CHOICE.
SINGER, NEW YORK — CLMUV

NIVEN, I. & ZUCKERMAN, H.S. — AN INTRODUCTION TO THE THEORY OF NUMBERS.
MATHEMATICAL ASSOCIATION OF AMERICA, 3RD EDN., 1978. — 3 — CLMUV

NORMAC (NORTHERN MATHEMATICS COUNCIL) — (VARIOUS; 8 DIFFERENT TITLES)
NORMAC (B. S. PINFIELD, MANCHESTER EDUCATION COMMITTEE) — 1 — JLBTZ
(MIS 7,3, MT 89, PRIMARY BOOKS FOR REFERENCE, PP. 40 EACH. TITLES ARE RECEPTION, NUMBER 678, NUMBER FUN, NUMBER PATTERNS, INTRODUCTION TO MEASUREMENT FOR INFANTS, BRICKS BOXES AND CONTAINERS, POLYGONS AND POLYHEDRA, GEOBOARDS AND COORDINATES PRICE 30P OR 40P)

NORTHROP, E. P. — RIDDLES IN MATHEMATICS.
PENGUIN. — 1 — BLMTUVZ
(GOOD REFERENCE BOOK FOR PARADOXES; EXCELLENT DISCUSSION OF "EVERY TRIANGLE IS ISOSCELES")

NOTTINGHAM UNIVERSITY, SHELL CENTRE FOR MATHEMATICAL EDUCATION — BASIC SKILLS IN MATHS FOR ENGINEERING.
NOTTINGHAM UNIVERSITY, 1977 — 1 — ABELMU
(G418. MATHEMATICS REQUIREMENTS OF CRAFT APPRENTICES, WITH DETAILED EXAMPLES OF USE. FOR EITB)

NUFFIELD/BRITISH COUNCIL — MATHEMATICS : FROM PRIMARY TO SECONDARY
CHAMBERS/MURRAY/WILEY, 1978 — 3 — ETMP
+ (CONDENSED VERSION OF NUFFIELD GUIDES, COVERING THE 10-13 YEAR OLDS)

NUFFIELD FOUNDATION CEDO — MATHEMATICS: THE FIRST THREE YEARS.
CHAMBERS AND MURRAY, 1970. — BJPT
+ (CONDENSED VERSION OF NUFFIELD GUIDE)

NUFFIELD FOUNDATION CEDO — MATHEMATICS: THE LATER PRIMARY YEARS.
CHAMBERS, MURRAY AND WILEY, 1972, — JET
+ (MIS 2,4, CONDENSED VERSION OF NUFFIELD GUIDE, PP 177)

O'BEIRNE, T.H. — PUZZLES AND PARADOXES.
OUP, 1965. — BLUVZ
+

O'BRIEN, T.C. — ODDS AND EVENS
A. AND C. BLACK, 1972 — K
+ ("YOUNG MATHEMATICIAN" SERIES, 5-9 YR. OLDS)

O'DAFFER, P.G. & CLEMENS, S.R. — GEOMETRY: AN INVESTIGATIVE APPROACH.
ADDISON-WESLEY, 1977. — LM — *0
+ (A GOOD LOOK AT TESSELLATIONS AND SYMMETRY)

OGILVY, C.S. — EXCURSIONS IN GEOMETRY.
LMUVZ — *
+

ORE O. — GRAPHS AND THEIR USES.
MATHEMATICAL ASSOCIATION OF AMERICA, 1963 — CLMUV
+

ORNELL, C.P. — AN INTRODUCTION TO PROBABILITY AND STATISTICS, INCLUDING TEACHERS' GUIDE.
OLIVER AND BOYD, 1968. — LM — 0
+ (IMAGINATIVE, SIMPLE, SOUND)

PALING, D. ET AL — MAKING MATHEMATICS; A SECONDARY COURSE. BOOKS 1-2-3-4, TOPIC BOOKS & WORKBOOKS.
OUP, 1968-71. LMPQ
+ (MIS 1,3 NON - EXAMINATION SECONDARY PUPILS. TOPIC BOOKS INCLUDE MAKING MODELS, MOVEMENT AND PATTERN, FLOW DIAGRAMS TO COMPUTERS)

PAPY, G. — MODERN MATHEMATICS. VOLS I-VI
COLLIER-MACMILLAN. 3 LMTVB
+ (OF INTEREST TO SEE HOW ANOTHER COUNTRY DOES IT DIFFERENTLY; INTENDED FOR PUPILS, THOUGH MANY WOULD FIND IT TAXING. A MODERN COURSE IN THE SPIRIT OF BOURBAKI)

PEARCY, J.F. AND LEWIS, K. — EXPERIMENTS IN MATHEMATICS, STAGES 1,2,3.
LONGMANS, 1967 KMQ
+

PEDOE, D. — GEOMETRY AND THE LIBERAL ARTS.
PENGUIN. 3 CHLUV *
+ (G419, CLASSICAL MATERIAL, NICELY PRESENTED PP296)

PEDOE, D. A. — THE GENTLE ART OF MATHEMATICS.
PENGUIN BLUVZ *O
+

PERELMAN, Y. — FIGURES FOR FUN; STORIES AND CONUNDRUMS.
MOSCOW: FOREIGN LANGUAGES PUBLISHING HOUSE, LMUVZ
1957.
+

PHILLIPS, H — BRUSH UP YOUR WITS
DENT 1936 ZJLUMV
+

PHILLIPS, J. — PAPER FOLDING
A. AND C. BLACK, 1974. K
+ ("YOUNG MATHEMATICIAN" SERIES, 5-9YR. OLDS, SUGGESTING SIMPLE EXPERIMENTS).

PIAGET, J. THE CHILD'S CONCEPTION OF NUMBER
ROUTLEDGE 1952 JTE
+

PIAGET, J. AND INHELDER, A. THE CHILD'S CONCEPTION OF SPACE
ROUTLEDGE 1956 JTE
+

PIAGET, J. AND INHELDER, B. GROWTH OF LOGICAL THINKING FROM CHILDHOOD TO ADOLESCENCE
ROUTLEDGE 1958 JTE
+

PIAGET, J. INHELDER, B. AND SZOMINSKA, A. THE CHILD'S CONCEPTION OF GEOMETRY
ROUTLEDGE 1960 JTE
+

POLYA, G. HOW TO SOLVE IT.
PRINCETON U.P., 1957. 2 BEJLUVT *
+ (MIS 1,7, A HEURISTIC APPROACH TO PROBLEM SOLVING, PP 240)

POLYA, G. & KILPATRICK, J. THE STANFORD MATHEMATICS PROBLEM BOOK WITH HINTS AND SOLUTIONS.
TEACHERS COLLEGE PRESS, 1974. ELUVZ *
+ (G406, PROBLEMS FROM STANFORD COMPETITION, PP68)

POLYA, G. MATHEMATICAL METHODS IN SCIENCE (SMSG STUDIES NO. XI)
LELAND STANFORD JUNIOR UNIVERSITY ACLMUV
+ (G419, PP234)

POPP, W. HISTORY OF MATHEMATICS: TOPICS FOR SCHOOLS.
OPEN UNIVERSITY PRESS/SADLER, 1978. HLUV
+

QUADLING D. THE SAME BUT DIFFERENT.
MATHEMATICAL ASSOCIATION, 1969. BEJLU *
+ (SURVEY OF NOTION OF "EQUIVALENCE" IN SECONDARY SCHOOL MATHEMATICS)

RAPAPORT, E. (TRANSLATOR) HUNGARIAN PROBLEM BOOKS, 1&2.
RANDOM HOUSE, 1963. LUVZ *
+

RAZZELL, A. G. AND WATTS, M. MATHEMATICAL TOPICS 1-6.
HART-DAVIS, 1967. J
+ (MT72)

REICHMANN W.J. THE FASCINATION OF NUMBERS.
METHUEN, 1963. 1 BLUV *O
+

REICHMANN W.J. THE USE AND ABUSE OF STATISTICS.
PENGUIN 2 BEJLMUV *
+

REYNOLDS, J.A.C. SHAPE, SIZE, AND PLACE.
ARNOLD. 1 LM
+ (PP68)

ROGERS, J.T. THE STORY OF MATHEMATICS
BROCKHAMPTON, 1968 LU
+

ROGERSON, A.T., ET AL . MODERN MATHEMATICS IN THE SCIENCE LESSON.
CUP. 2 ABELTU
+ (G419, MODERN MATHS RELEVANT TO SC. TCHG. PP. 39)

ROSEN, J. SYMMETRY DISCOVERED.
CUP 7 ABLMUV *
+ (DISCURSIVE INTRODUCTION TO SYMMETRY FOR THE INTENDING PHYSICIST
GROUP THEORY PRESENT BUT CAN BE OMITTED)

ROSSKOPF,M.F. (ED) CHILDREN'S MATHEMATICAL CONCEPTS:SIX PIAGETIAN
STUDIES IN MATHEMATICS EDUCATION
TEACHERS COLLEGE PRESS,COLUMBIA UNIVERSITY, EJ
1975
+

RUSSELL, A.M. RAPID CALCULATIONS
EMERSON, 1956 J L M U V
+ (SHORT CUTS TO ARITHMETICAL CALCULATIONS)

SACKSON, S. A GAMUT OF GAMES.
NELSON, 1974. JKLMPQUVZ *
+ (IDEAL FOR A MATHS CLUB)

SANFORD, V. A SHORT HISTORY OF MATHEMATICS.
HARRAP, 1958. BHJLU 0
+ (COVERS HISTORICAL FIELD AT ELEMENTARY LEVEL)

SAWYER, W.W. PRELUDE TO MATHEMATICS.
PENGUIN, 1955. BELMUVC *0
+ (LAYMAN'S GUIDE TO NOVEL MATHEMATICS E.G. NON-EUCLIDEAN GEOMETRY)

SAWYER, W.W. A PATH TO MODERN MATHEMATICS.
PENGUIN, 1966. BELUV *0
+ (LAYMAN'S INTRODUCTION TO LINEAR ALGEBRA AND METRIC SPACES)

SAWYER, W.W. THE SEARCH FOR PATTERN.
PENGUIN, 1970. BELMTUV *0
+

SAWYER, W.W. MATHEMATICIAN'S DELIGHT.
PENGUIN. 1 BELTUV *
+

SAWYER, W.W. VISION IN ELEMENTARY MATHEMATICS.
PENGUIN. BEJLTUV *0
+

SAWYER, W.W. A CONCRETE APPROACH TO ABSTRACT ALGEBRA.
DOVER, 1978 BCLTUV *
+ (MIS 8,3)

SAWYER, W.W. AND STANLEY, L.G. DESIGN AND MAKING
BLACKWELL, 1950 JL *
+

SCHAAF, W.L. A BIBLIOGRAPHY OF RECREATIONAL MATHEMATICS. 3 VOLS.
NCTM 1970-73. BLTUZ *
+ (USEFUL REFERENCE)

SCHNEIDER PUSH, PULL & LIFT
HODDER & STOUGHTON 2 AK
+

SCHNEIDER, N. HOW BIG IS BIG?
HODDER AND STOUGHTON, 1946 2 KA
+ (ORDERS OF MAGNITUDE IN THE UNIVERSE)

SCHOOLS COUNCIL METRES, LITRES AND GRAMS
EVANS/METHUEN EDUCATIONAL, 1975 1 JPT
+

SCHOOLS COUNCIL (E.M.E. PROJECT) EARLY MATHEMATICAL EXPERIENCES (12 BOOKLETS)
ADDISON-WESLEY EJ
+ (MIS 7,4)

SCHOOLS COUNCIL, CURRICULUM BULLETIN NO. 1. MATHEMATICS IN PRIMARY SCHOOLS
HMSO. EJPT *
+ (THE 'MODERN' APPROACH BY ONE OF ITS LEADING EXPONENTS AND POPULARISERS)

SCHOOLS COUNCIL. MIXED ABILITY TEACHING IN MATHEMATICS
SCHOOLS COUNCIL BELT *
+ (MIS 7,2,EXCELLENT CASE STUDIES OF MIXED ABILITY TEACHING IN ACTION: DISCUSSION OF ISSUES AND PRACTICALITIES)

SCHOOLS COUNCIL CONTINUING MATHEMATICS PROJECT UNITS, BATCH 1 (13 TITLES)
LONGMANS, 1978 8 ELTUV
+ ("PROGRAMMED" MATERIALS FOR INDEPENDENT LEARNING OF MATHEMATICS BY NON-SPECIALISTS. TITLES: INDICES AND STANDARD FORM, LINEAR PROGRAMMING, HYPOTHESIS TESTING 1,2,3, THE CHI-SQUARE TEST, CORRELATION, DESCRIPTIVE STATISTICS 1,2,3,4, PROBABILITY 1,2,3, TEACHERS' GUIDE)

SCHOOLS COUNCIL CONTINUING MATHEMATICS PROJECT UNITS, BATCH [illegible] TITLES)
LONGMANS, 1978 8 AELTUV
+ ("PROGRAMMED" MATERIALS FOR INDEPENDENT LEARNING OF MATHEMATICS BY NON-SPECIALISTS. TITLES: POSITIVE AND NEGATIVE NUMBERS, TRANSFORMATION OF FORMULAE, INEQUALITIES, WORKING WITH RATIOS, USE OF LOGARITHMS TO DETERMINE RELATIONSHIPS, THEORY OF LOGARITHMS 1,2, RANK SIZE RULE, NEAREST NEIGHBOUR ANALYSIS, NETWORK ANALYSIS, TRIGONOMETRY OF THE RIGHT-ANGLED TRIANGLE, THE GRAVITY MODEL, FLOW CHARTS AND ALGORITHMS, CRITICAL PATH ANALYSIS)

SCHOOLS COUNCIL SIXTH-FORM MATHEMATICS PROJECT: MATHEMATICS APPLICABLE
HEINEMANN(1975-8) 2,3 ALV *
(TITLES ARE UNDERSTANDING INDICES;GEOMETRY FROM COORDINATES INTRODUCTORY PROBABILITY;POLYNOMIAL MODELS;VECTOR MODELS.PP144, 96,64,120,128 RESPECTIVELY)

SCHUH, F. THE MASTER BOOK OF MATHEMATICAL RECREATIONS.
DOVER, 1968. 3 MVZ

SCOPES, P.G. MATHEMATICS IN SECONDARY SCHOOLS:A TEACHING APPROACH
CUP, 1973. 3 ELTU
(G405,MIS 3,1, PP. 179)

SCOPES,P.G. MATHEMATICS FOR PRIMARY SCHOOL TEACHERS
LONGMANS,1970 2 EJ
(FOR OVERSEAS SCHOOLS)

SEABORNE, P.L. AN INTRODUCTION TO THE DIENES MATHEMATICS PROGRAMME.
HODDER AND STOUGHTON,1975 3 EJLT
(G410,MIS 5,1, PP. 147)

SEALEY, L.G.W. FINDING OUT ABOUT THE WORLD OF NUMBERS
PURNELL, 1963 JTE *

SEALEY, L.G.W. JUNIOR SCHOOL MATHEMATICS - BASIS FOR A SCHEME OF WORK
BLACKWELL, 1964 JTE *

SEALEY, L.G.W. THE CREATIVE USE OF MATHEMATICS IN THE JUNIOR SCHOOL
BLACKWELL, 1963 JTE *

SERVAIS W. AND VARGA T. (EDS). TEACHING SCHOOL MATHEMATICS; A UNESCO SOURCEBOOK.
PENGUIN BELTU *O

SHACKLE, G.L.S. MATHEMATICS AT THE FIRESIDE
CUP, 1952 LMUV

SHERLOCK, A.J. INTRODUCTION TO PROBABILITY AND STATISTICS.
ARNOLD. LMUV O
(C.S.M. SERIES TO O LEVEL)

SILLITOE, A.F. BRITAIN IN FIGURES; A HANDBOOK OF SOCIAL STATISTICS
PENGUIN, 1971. ALMUV O

SIME, M. A CHILD'S EYE VIEW: PIAGET FOR YOUNG PARENTS AND TEACHERS.
THAMES & HUDSON, 1973 3 EJT
(G402, ACTIVITIES FOR CHILDREN BASED ON PIAGETIAN THEORIES, PP. 144)

SINKOV, A ELEMENTARY CRYPTANALYSIS
SINGER (NOW MAA), 1968 LMUVZ

SITOMER, H. AND H. WHAT IS SYMMETRY?
A. AND C. BLACK, 1971 K
("YOUNG MATHEMATICIAN" SERIES, 5-9 YR. OLDS)

SKEMP R.R. THE PSYCHOLOGY OF LEARNING MATHEMATICS.
PENGUIN, 1971. 1 EJLTU *
(MIS 1,7, TEACHING FOR UNDERSTANDING - THE DEVELOPMENT OF A SCHEMA)

SMITH, D.E. NUMBER STORIES OF LONG AGO
GINN, 1948 1+ LMHJK
(GXXXII, SHOULD INTEREST CHILDREN OF ALL AGES, PP188)

SOMINSKII, I.S. THE METHOD OF MATHEMATICAL INDUCTION.
HEATH. LMUV

SPRENT, P. STATISTICS IN ACTION.
PENGUIN, 1977. 2 BLUVE *
(USEFUL FOR EDUCATIONAL STATISTICS)

SRIVASTAVA, J. J. COMPUTERS; WEIGHING AND BALANCING; AREA (3 VOLS)
A. AND C. BLACK, 1971,74. K
+ ("YOUNG MATHEMATICIAN" SERIES, 5-9YR. OLDS)

STEINHAUS, H. MATHEMATICAL SNAPSHOTS.
OUP,3RD EDN. 1969. 8 BJLMUVZ *
+ (EXCELLENT; BEAUTIFUL AND UNUSUAL BOOK OF PHOTOS AND DIAGRAMS)

STERN,C AND STERN,M.B. CHILDREN DISCOVER ARITHMETIC.
HARRAP,2ND EDN.,1971. 3 EJT *
+ (RATIONALE OF STERN STRUCTURAL APPARATUS,PP412)

STEVENS, P.S. PATTERNS IN NATURE.
PENGUIN, 1974. 4 AJLMUVZ
+ (FULL OF VISUAL PATTERNS WITH MATHEMATICAL CONNECTIONS,SOME FOUND IN SEEMINGLY HAPHAZARD SITUATIONS)

STEWART I.M. CONCEPTS OF MODERN MATHEMATICS.
PENGUIN, 1975 2 BCELUV *
+ (G415,LAYMAN'S INTRODUCTION, CONTAINS A GOOD SURVEY OF ALGEBRAIC TOPOLOGY)

STOVER STEREOGRAMS.
HOUGHTON-MIFFLIN. PQMV
+ (HOW TO MAKE STEREOSCOPIC PICTURES, WITH EXAMPLES AND PRECISE INSTRUCTIONS, 3DSPECTACLES PROVIDED)

STURGESS, D.A. A FRAMEWORK FOR MATHEMATICS TEACHING IN THE PRIMARY SCHOOL
UNIVERSITY OF NOTTINGHAM, SCHOOL OF EDUCATION ETJ
+

SULLIVAN, E.V. PIAGET AND THE SCHOOL CURRICULUM.BULLETIN NO.2,
ONTARIO INSTITUTE FOR STUDIES IN EDUCATION. EJL
+ (PP 38)

SUPPES, P. INTRODUCTION TO LOGIC.
VAN NOSTRAND REINHOLD, 1957. CLUV
+

TAHTA D.G. PEGBOARD GAMES. MATHEMATICS TEACHING PAMPHLET NO.13.
ATM,1967. EJKLMPQTUVZ
+

TANNADGE, A. & STARR, P. A PARENTS' GUIDE TO SCHOOL MATHEMATICS.
CUP, 1970 3 BLU
+ (G418, SUITABLE NON-MATHEMATICAL TEACHERS, LARGELY ABOUT SMP 1-3, PP 182)

TAMUR, JUDITH M., ED. STATISTICS; A GUIDE TO THE UNKNOWN.
HOLDEN-DAY, 1972. ABELUV
+ (EXCELLENT BACKGROUND READER TO THE MANY APPLICATIONS OF STATISTICS, PP430)

TAYLOR, J. FOUNDATIONS OF MATHEMATICS IN INFANT SCHOOL.
ALLEN AND UNWIN,1976 3 EJPT
+ (MIS 6,4, FIRST PART GIVES BACKGROUND TO PRESENT APPROACHES, SECOND SUGGESTIONS FOR SPECIFIC TOPICS,PP168)

TAYLOR, J.M. "LOOKING AT ..."(SERIES) (SHAPES, SOLID SHAPES, PATTERNS, LINES, SIZE, NUMBERS,UNITS, WEIGHT)
BLACKWELL, 1969-73 2 KQ
+ (A SERIES WITH PICTURES AND VERY LARGE PRINT, ENCOURAGES INFANTS TO HANDLE AND STUDY OBJECTS)

THOMAS, A. & BANNISTER, M. NUMBER WORK WITH INFANTS.
BLACKWELL,1974. 2 EJPT
+ (MIS 3,5, PRACTICAL SUGGESTIONS)

THOMAS, M. ON OUR OWN TWO FEET, BOOKS 1 - 5.
HEINEMANN, 1978 2 M
+ (WORKBOOKS ON SOCIAL APPLICATIONS, STARTING WORK, ETC., FOR LOW ACHIEVERS)

THOMPSON, SIR D'ARCY W. ON GROWTH AND FORM.
CUP, 1942,ABRIDGED EDN. EDITED BONNOR. 6 ABLUV
+ (CLASSIC ON MATHEMATICAL ASPECTS OF BIOLOGY)

THWAITES B. SMP: THE FIRST TEN YEARS.
CUP, 1972. 3 BELU
+ (MIS 2,2)

THYER, D.F. & MAGGS, J.E. TEACHING MATHEMATICS TO YOUNG CHILDREN.
HOLT, RINEHART & WINSTON, 1971. 4 EJLQT
+ (SOURCE BOOK FOR TOPICS 5-9, EXCLUDING NUMBER. PP. 266)

TRIVETT, D.H. SHADOW SHAPES
A. AND C. BLACK, 1976 K
+ ("YOUNG MATHEMATICIAN" SERIES, 5-9 YR. OLDS)

TURNBULL, H.W. THE GREAT MATHEMATICIANS.
METHUEN, 1962. BHJLU O
+

VAJDA, S. THEORY OF GAMES AND LINEAR PROGRAMMING.
CHAPMAN AND HALL,1977 2 BCLUV
+ (CONDENSED BUT CLEAR)

VON BARAVALLE, H GEOMETRIE ALS SPRACHE DER FORMEN (GEOMETRY AS THE LANGUAGE OF SHAPES)
VERLAG FRIER GEISTLEBEN, STUTTGART, 1963 BL
+ (IN GERMAN, PP. 146, PLUS 411 BLACK AND WHITE DRAWINGS OF GEOMETRICAL INTEREST)

VOROBYOV, N.N. THE FIBONACCI NUMBERS.
HEATH,BOSTON LUV *
+ (EXTENSIVE ACCOUNT OF PROPERTIES,NO HISTORY OR APPLICATIONS;TRANS. FROM RUSSIAN,POPULAR LECTURES IN MATHEMATICS SERIES)

WAIN, G.T. & WOODROW, D., MATHEMATICS TEACHER EDUCATION PROJECT,(2 VOLS)
EDS.
BLACKIE, 1980. 14, ELTU
11
+ (STUDENT MATERIALS AND TUTOR'S GUIDE FOR INITIAL - AND IN-SERVICE - TRAINING OF MATHEMATICS TEACHERS)

WAIN, G.T., ED. MATHEMATICAL EDUCATION.
VAN NOSTRAND, 1978. 4 ELTU
+ (COLLECTION OF ARTICLES ON VARIOUS ASPECTS)

WALTER, M. MAKE A BIGGER PUDDLE; MAKE A SMALLER WORM (GEOMETRY).
DEUTSCH,1971. JKLMPQ *
+ (AN INVITATION TO PLAY WITH A MIRROR)

WALTER, M. ANOTHER, ANOTHER, ANOTHER AND MORE.(GEOMETRY).
DEUTSCH, 1975. JKLMPQ *
+ (BRILLIANT - 'PLAY' WITH HINGED MIRROR)

WALTERS, A.D. TEACHING MATHEMATICS 8-13
MACMILLAN, 1975 7 EJLT R
+ (G413, INTEGRATING OLD AND NEW, EXTENSIVE BIBLIOGRAPHY, PP. 278)

WARD, M MATHEMATICS AND THE 10 YEAR OLD
EVANS/METHUEN EDUCATIONAL, 1979 5 EJ *
+ (SCHOOLS COUNCIL WORKING PAPER NO.61, REPORT OF THE PRIMARY SCHOOL MATHEMATICS EVALUATION STUDY, PP168)

WATSON, F.R. DEVELOPMENTS IN MATHEMATICS TEACHING.
OPEN BOOKS, 1976. 2 EJLTU *
+ (SURVEY OF MATHEMATICS CURRICULUM DEVELOPMENT IN UK, 1960-1976, WITH CASE STUDIES, PP142)

WEAVER, W. LADY LUCK. THE THEORY OF PROBABILITY.
HEINEMANN. BLUV *
+

WELLS, A.F. THE THIRD DIMENSION IN CHEMISTRY.
OUP, 1968. 2 ABUVL
+ (EXPLAINS WHY SYMMETRY MATTERS TO CHEMISTS)

WENNINGER, M.J. POLYHEDRON MODELS.
CUP, 1971. 6 BJKLMPQUV *
+ (G397, MIS1, 4 CONSTRUCTION OF POLYHEDRA AND THEIR STELLATIONS, PP. 208)

WESTAWAY, F.W. CRAFTMANSHIP IN THE TEACHING OF ELEMENTARY MATHEMATICS
LONDON 1934. LE
+

WEST SUSSEX EDUCATION COMMITTEE GUIDELINES IN MATHEMATICS, 5-13 YEARS
WEST SUSSEX COUNTY COUNCIL 1975 EJT
+

WEYL H. SYMMETRY.
PRINCETON UNIVERSITY PRESS, EPSOM RD. 7 BCLUVZ *
GUILDFORD, SURREY, 1952.
+ (A POPULAR ACCOUNT BY AN EXPERT, PP168)

WHANSLOW, H.W. THE STORY BOOK OF MONEY
WELLS, GARDNER, DARTON & CO., 1948 JKLMH
+

WILLIAMS, E.M. AND SHUARD, H. PRIMARY MATHEMATICS TODAY.
LONGMAN, 2ND EDN., 1979 6 EJPT
+ (TEACHING METHOD AND CONTENT; EXCELLENT SOURCE BOOK)

WILLIAMS, J.D. TEACHING TECHNIQUE IN PRIMARY MATHS.
NFER, 1971. EJT
+ (MIS 1,5,GIVES DETAILS OF RESEARCH IN TEACHING METHODS,EXCELLENT BIBLIOGRAPHY;PERHAPS NOW NEEDS UPDATING)

WYLIE, C.R.(JR.) 101 PUZZLES IN THOUGHT AND LOGIC
DOVER, 1957. 1 LMUVZ
+

WYNNE-WILLSON, W.S. GEOMETRY
BLACKIE, 1978 4 LUTE
+ (SCHOOLS COUNCIL "CRITICAL REVIEW" PROJECT)

WYVILL, R. A TEACHERS' GUIDE TO PRIMARY MATHEMATICS
CHATTO & WINDUS, 1970 2 EJT
+ (PP 113)

YATES, R.C. CURVES AND THEIR PROPERTIES
NCTM, 1952 BLU
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